

CLAIMS

1. An active binder for brazing to be used at the time of brazing a metal part made of a metal and a ceramic part made of a ceramic, wherein a powder of the active metal or its compound is added and mixed.

2. The active binder for brazing according to claim 1, wherein the binder is a water-based binder and the compound of the active metal is titanium hydride.

3. A part for brazing made of a ceramic to be used at the time of brazing with a metal part made of a metal, wherein a powder of the active metal or its compound is firmly stuck through a binder to at least a portion of the part to be brazed.

4. The part for brazing according to claim 3, wherein the compound of the active metal is titanium hydride and the ceramic is aluminum nitride or silicon nitride.

5. A brazed product obtained by brazing a metal part made of a metal and a ceramic part made of a ceramic, wherein the brazing is carried out by applying an active binder for brazing prepared by adding and mixing a powder of the active metal or its compound to and with a water-based binder to the surface of the ceramic part to be brazed; overlaying the ceramic part

obtained by spreading and firmly sticking a brazing powder to the binder thereafter and a portion of the metal part, the counterpart, to be brazed; and melting the brazing powder by heating them in a furnace.

6. The brazed product according to claim 5, wherein the metal part is made of copper or a copper alloy, the ceramic part is made of aluminum nitride or silicon nitride, and the brazing powder is a silver brazing powder.

7. A silver brazing material comprising a foil-like substrate of a silver braze and a powder of the active metal or its compound firmly stuck to at least one face of the substrate through a binder.

8. The silver brazing material according to claim 7, wherein the compound of the active metal is titanium hydride.